ZRZ WATERFRONT REMEDIATION PROJECT

TABLE FROM DRAFT BIOLOGICAL ASSESSMENT, OCTOBER 2009

The general condition of the environmental baseline in the action area and the potential effects of the proposed project are summarized in terms of PCEs and habitat indicators in Table 7. PCEs are identified by NMFS when critical habitat is designated, as elements essential to the conservation of a species. Other habitat indicators, or factors influencing the environmental baseline, are also included in Table 7. These indicators were developed for large low-gradient rivers (based on existing knowledge of the lower Willamette River) during a workshop sponsored by the City of Portland and NMFS in June 1999 (City of Portland and NMFS 1999).

Table 7. Condition of the Environmental Baseline in the Action Area and Potential Effects of the Zidell Shoreline Remedial Actions

Habitat Feature	Envir	onmental Bas	seline	Effects of the Action		
Primary Constituent Elements: critical habitat feature	Properly Functioning	At Risk	Not Properly Functioning	Improve ¹	Maintain ²	Degrade ³
Freshwater Rearing Sites: water quality			Х	Х		Temporary Impact
Freshwater Rearing Sites: water quantity		Х			Х	
Freshwater Rearing Sites: floodplain connectivity			Х	Х		
Freshwater Rearing Sites: suitable forage		Х		Х		Temporary Impact
Freshwater Rearing Sites: natural cover			Х	Х		
Freshwater Migration Corridors: water quality			Х	Х		Temporary Impact
Freshwater Migration Corridors: water quantity		Х			х	
Freshwater Migration Corridors: free of artificial obstructions		Х		Х		
Freshwater Migration Corridors: natural cover			Х	Х		
Freshwater Spawning Sites	NA			NA		
Estuarine Areas	NA			NA		
Nearshore Marine Areas	NA			NA		
Other Factors A	Affecting the Envi	ronmental Ba	seline and Speci	es Recoverv		

Habitat Feature	Environmental Baseline			Effects of the Action		
Species Interactions: predation		х			х	
Species Interactions: number of exotic species		х			х	
Species Interactions: competition		х			х	
Species Interactions: hatchery / native ratio			Х		х	

¹ For the purposes of this checklist, "Improve" means to change the function of an at risk indicator to properly functioning, or to change the function of a not properly functioning indicator to at risk or properly functioning (i.e., it does not apply to properly functioning indicators).

² For the purposes of this checklist, "maintain" means that the function of an indicator does not change (i.e., it applies to all indicators regardless of functional level).

³ For all purposes of this checklist, "degrade" means to change the function of an indicator for the worse (i.e., it applies to all indicators regardless of functional level). In some cases, a not properly functioning indicator may be further worsened, and this should be noted.